

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Original) A radio controlled watch comprising:
an antenna for receiving a radio wave including time information;
a watch device for causing a display portion to display time information such as a present time by the radio wave received by the antenna;
a watch case for accommodating the antenna and the watch device; and
at least one non-magnetic member fixed to an internal surface of the watch case and having an electric resistivity set to be $7.0\mu\Omega$ -Cm or less.
2. (Original) The radio controlled watch according to claim 1, wherein the watch case is formed by at least one material selected from titanium, a titanium alloy, stainless steel, tungsten carbide and tantalum carbide, and
the non-magnetic member is fixed to an internal surface of the watch case.
3. (Original) The radio controlled watch according to claim 1, wherein the watch case includes a watch case body,
the watch case body being formed by at least one material selected from titanium, a titanium alloy, stainless steel, tungsten carbide and tantalum carbide, and
the non-magnetic member is fixed to an internal surface of the watch case body.
4. (Currently Amended) The radio controlled watch according to ~~any of claims 1 to 3~~claim 1, wherein the watch case includes a watch case body and a back cover attached and fixed to the watch case body,
the back cover being formed by at least one material selected from titanium, a titanium alloy, stainless steel, tungsten carbide and tantalum carbide, and
the non-magnetic member is fixed to an internal surface of the back cover.

5. (Currently Amended) The radio controlled watch according to ~~any of~~ ~~claims 1 to 4~~claim 1, wherein the non-magnetic member is formed by at least one material selected from gold, silver, copper, brass, aluminum, magnesium, zinc and their alloy.

6. (Currently Amended) The radio controlled watch according to ~~any of~~ ~~claims 1 to 4~~claim 1, wherein the non-magnetic member is formed by bonding at least two materials selected from gold, silver, copper, brass, aluminum, magnesium and their alloy.

7. (Currently Amended) The radio controlled watch according to ~~any of~~ ~~claims 1 to 6~~claim 1, wherein a resin member is provided in close contact with an internal surface of the non-magnetic member.

8. (Currently Amended) The radio controlled watch according to ~~any of~~ ~~claims 1 to 7~~claim 1, wherein the antenna is constituted by a magnetic core member and a coil wound around the magnetic core member in plural turns, and

the non-magnetic member is provided in a position in which the antenna is projected onto the internal surface of the watch case in parallel along at least one plane including an axis of the magnetic core member.

9. (Original) The radio controlled watch according to claim 8, wherein the antenna is constituted by the magnetic core member and the coil wound around the magnetic core member in plural turns, and

the non-magnetic member is provided in a position of the watch case body in which the antenna is projected onto the internal surface of the watch case in parallel along at least one plane including the axis of the magnetic core member.

10. (Original) The radio controlled watch according to claim 8, wherein the antenna is constituted by the magnetic core member and the coil wound around the magnetic core member in plural turns, and

the non-magnetic member is provided in a position of the back cover in which the antenna is projected onto the internal surface of the watch case in parallel along at least one plane including the axis of the magnetic core member.

11. (Currently Amended) The radio controlled watch according to ~~any of~~ ~~claims 1 to 7~~claim 1, wherein the antenna is constituted by a magnetic core member and a coil wound around the magnetic core member in plural turns, and

the non-magnetic member is provided in a position of the internal surface of the watch case which is opposed to at least one end in an axial direction of the antenna.

12. (Currently Amended) The radio controlled watch according to ~~any of~~ ~~claims 1 to 11~~claim 1, wherein the watch case is constituted by a clad material obtained by bonding the non-magnetic member in pressure contact with at least one material selected from titanium, a titanium alloy and stainless steel.

13. (Currently Amendment) The radio controlled watch according to ~~any of~~ ~~claims 1 to 11~~claim 1, wherein the watch case includes a watch case body,

the watch case body being constituted by a clad material obtained by bonding the non-magnetic member in pressure contact with at least one material selected from titanium, a titanium alloy and stainless steel.

14. (Currently Amended) The radio controlled watch according to ~~any of~~ ~~claims 1 to 13~~claim 1, wherein the watch case includes a watch case body and a back cover attached and fixed to the watch case body,

the back cover being constituted by a clad material obtained by bonding the non-magnetic member in pressure contact with at least one material selected from titanium, a titanium alloy and stainless steel.

15. (Currently Amended) The radio controlled watch according to ~~any of~~ ~~claims 1 to 11~~claim 1, wherein the non-magnetic member is fixed to the watch case by at least one means such as press fitting, caulking, welding, soldering and an adhesive.

16. (Currently Amended) The radio controlled watch according to ~~any of~~
~~claims 1 to 11~~claim 1, wherein the watch case includes a watch case body, and
the non-magnetic member is fixed to the watch case body by at least one means
such as press fitting, caulking, welding, soldering and an adhesive.

17. (Currently Amended) The radio controlled watch according to ~~any of~~
~~claims 1 to 11 and 16~~claim 1, wherein the watch case includes a watch case body and a back
cover attached and fixed to the watch case body, and
the non-magnetic member is fixed to the back cover by at least one means such
as press fitting, caulking, welding, soldering and an adhesive.

18. (Currently Amended) The radio controlled watch according to ~~any of~~
~~claims 1 to 11~~claim 1, wherein the non-magnetic member fixed to the watch case is formed by
means such as a wet plating method or a metal spraying method.

19. (Currently Amended) The radio controlled watch according to ~~any of~~
~~claims 1 to 11~~claim 1, wherein the watch case includes a watch case body, and
the non-magnetic member fixed to the watch case body is formed by means such
as a wet plating method or a metal spraying method.

20. (Currently Amended) The radio controlled watch according to ~~any of~~
~~claims 1 to 11 and 18~~claim 1, wherein the watch case includes a watch case body and a back
cover attached and fixed to the watch case body, and
the non-magnetic member fixed to the back cover is formed by means such as a
wet plating method or a metal spraying method.

21. (Currently Amended) The radio controlled watch according to ~~any of~~
~~claims 1 to 20~~claim 1, wherein the non-magnetic member has a thickness of 50 μ m to 2000 μ m.

22. (Original) A radio controlled watch comprising:
an antenna for receiving a radio wave including time information;

a watch device for causing a display portion to display time information such as a present time by the radio wave received by the antenna; and
a watch case for accommodating the antenna and the watch device,
wherein the watch case has at least a part constituted by a non-magnetic member having an electric resistivity of $7.0\mu\Omega$ -Cm or less, and
a surface of the watch case is subjected to surface finishing.

23. (Original) The radio controlled watch according to claim 22, wherein the watch case includes a watch case body, a back cover and a bezel,
at least one of the watch case body, the back cover and the bezel is constituted by a non-magnetic member, and
the watch case other than the watch case constituted by the non-magnetic member is constituted by at least one material selected from titanium, a titanium alloy, stainless steel, tungsten carbide, tantalum carbide and a resin.

24. (Currently Amended) The radio controlled watch according to claim 22 ~~or 23~~, wherein the non-magnetic member is constituted by at least one material selected from gold, silver, copper, brass, aluminum, magnesium, zinc and their alloy.

25. (Currently Amended) The radio controlled watch according to claim 22 ~~or 23~~, wherein the non-magnetic member is formed by bonding at least two materials selected from gold, silver, copper, brass, aluminum, magnesium and their alloy.

26. (Currently Amended) The radio controlled watch according to ~~any of claims 22 to 24~~claim 22, wherein the antenna is constituted by a magnetic core member and a coil wound around the magnetic core member in plural turns, and
a member of the watch case onto which the antenna is projected in parallel along at least one plane including an axis of the magnetic core member or a portion onto which the projected member of the watch case is projected is constituted by the non-magnetic member.

27. (Currently Amended) The radio controlled watch according to ~~any of~~ ~~claims 22 to 24~~ claim 22, wherein the antenna is constituted by a magnetic core member and a coil wound around the magnetic core member in plural turns, and

a member of the watch case opposed to at least one end in an axial direction of the antenna or a portion opposed to the member of the watch case opposed to the end in the axial direction is constituted by the non-magnetic member.

28. (Currently Amended) The radio controlled watch according to ~~any of~~ ~~claims 22 to 27~~ claim 22, wherein the surface finishing is constituted by at least one surface finishing process selected from a mirror finished surface, a mat finished surface, a hairline pattering, a pattern and a letter.

29. (Currently Amended) The radio controlled watch according to ~~any of~~ ~~claims 22 to 28~~ claim 22, wherein the surface finishing is constituted by a metal coated film, the metal coated film being provided by at least one means selected from a wet plating method, a vapor deposition method, an ion plating method, an arcing method and a sputtering method.

30. (Currently Amended) The radio controlled watch according to ~~any of~~ ~~claims 22 to 29~~ claim 22, wherein a surface of the non-magnetic member is subjected to the surface finishing.

31. (Original) A radio controlled watch comprising:
an antenna for receiving a radio wave including time information;
a watch device for causing a display portion to display time information such as a present time by the radio wave received by the antenna; and
a watch case for accommodating the antenna and the watch device,
wherein the watch case is constituted by a metal.

32. (Original) The radio controlled watch according to claim 31, wherein the antenna is provided in contact with an internal surface of the watch case.

33. (Original) The radio controlled watch according to claim 31, wherein the antenna is provided apart from an internal surface of the watch case.

34. (Currently Amended) The radio controlled watch according to ~~any of~~ ~~claims 31 to 33~~ claim 31, wherein the watch case and the antenna are set in such a manner that a body thickness T1 of a watch case body of the watch case ranges from 300 μ m to 5000 μ m.

35. (Original) The radio controlled watch according to claim 34, wherein the watch case and the antenna are set in such a manner that the body thickness T1 of the watch case body of the watch case ranges from 500 μ m to 2000 μ m.

36. (Currently Amended) The radio controlled watch according to ~~any of~~ ~~claims 31 to 35~~ claim 31, wherein the watch case and the antenna are set in such a manner that a gap D1 from an internal surface of the watch case body of the watch case to the antenna ranges from 0 to 40000 μ m.

37. (Original) The radio controlled watch according to claim 36, wherein the watch case and the antenna are set in such a manner that the gap D1 from the internal surface of the watch case body of the watch case to the antenna ranges from 500 μ m to 10000 μ m.

38. (Currently Amended) The radio controlled watch according to ~~any of~~ ~~claims 31 to 37~~ claim 31, wherein the watch case and the antenna are set in such a manner that a back cover thickness T2 of a back cover of the watch case ranges from 100 μ m to 5000 μ m.

39. (Original) The radio controlled watch according to claim 38, wherein the watch case and the antenna are set in such a manner that the back cover thickness T2 of the back cover of the watch case ranges from 300 μ m to 2000 μ m.

40. (Currently Amended) The radio controlled watch according to ~~any of~~
~~claims 31 to 39~~claim 31, wherein the watch case and the antenna are set in such a manner that a
gap D2 from an internal surface of the back cover of the watch case to the antenna ranges from
0 to 5000 μ m.

41. (Original) The radio controlled watch according to claim 40, wherein
the watch case and the antenna are set in such a manner that the gap D2 from the internal
surface of the back cover of the watch case to the antenna ranges from 100 μ m to 700 μ m.

42. (Currently Amended) The radio controlled watch according to ~~any of~~
~~claims 31 to 41~~claim 31, wherein the watch case body of the watch case is formed by at least
one material selected from titanium, a titanium alloy, stainless steel, tungsten carbide and
tantalum carbide.

43. (Currently Amended) The radio controlled watch according to ~~any of~~
~~claims 31 to 41~~claim 31, wherein the watch case body of the watch case is formed by at least
one material selected from gold, silver, copper, brass, aluminum, magnesium, zinc and their
alloy.

44. (Currently Amended) The radio controlled watch according to ~~any of~~
~~claims 31 to 41~~claim 31, wherein the watch case body of the watch case is formed by bonding
at least two materials selected from gold, silver, copper, brass, aluminum, magnesium, zinc and
their alloy.

45. (Currently Amended) The radio controlled watch according to ~~any of~~
~~claims 31 to 41~~claim 31, wherein the watch case body of the watch case is formed of a hard
metal.

46. (Currently Amended) The radio controlled watch according to ~~any of~~
~~claims 31 to 45~~claim 31, wherein the back cover of the watch case is formed by at least one

material selected from titanium, a titanium alloy, stainless steel, tungsten carbide and tantalum carbide.

47. (Currently Amended) The radio controlled watch according to ~~any of claims 31 to 45~~claim 31, wherein the back cover of the watch case is formed by at least one material selected from gold, silver, copper, brass, aluminum, magnesium, zinc and their alloy.

48. (Currently Amended) The radio controlled watch according to ~~any of claims 31 to 45~~claim 31, wherein the back cover of the watch case is formed by bonding at least two materials selected from gold, silver, copper, brass, aluminum, magnesium and their alloy.

49. (Currently Amended) The radio controlled watch according to ~~any of claims 31 to 45~~claim 31, wherein the back cover of the watch case is formed of a hard metal.

50. (Currently Amended) The radio controlled watch according to ~~any of claims 31 to 49~~claim 31, wherein at least one of the watch case body and the back cover of the watch case is subjected to a surface treatment and/or a hardening treatment.

51. (Currently Amended) The radio controlled watch according to ~~any of claims 31 to 50~~claim 31, wherein an internal surface of the watch case body of the watch case and an external side surface of the antenna are provided in substantially parallel with each other as seen on a plane.

52. (Currently Amended) The radio controlled watch according to ~~any of claims 31 to 50~~claim 31, wherein an internal surface of the back cover of the watch case and an external side surface of the antenna are provided in substantially parallel with each other.

53. (Currently Amended) The radio controlled watch according to ~~any of claims 31 to 50~~claim 31, wherein one end face of both ends in an axial direction of the antenna is provided in substantially parallel with an internal surface of the back cover of the watch case.

54. (Currently Amended) The radio controlled watch according to ~~any of~~
~~claims 31 to 50~~claim 31, wherein one end face of both ends in an axial direction of the antenna
is provided substantially perpendicularly to an internal surface of the back cover of the watch
case.

55. (Currently Amended) The radio controlled watch according to ~~any of~~
~~claims 31 to 50~~claim 31, wherein an external side surface of the antenna is provided
substantially perpendicularly to an internal surface of the back cover of the watch case.

56. (Currently Amended) The radio controlled watch according to ~~any of~~
~~claims 31 to 55~~claim 31, wherein the back cover of the watch case takes a two-dimensional
planar shape.

57. (Currently Amended) The radio controlled watch according to ~~any of~~
~~claims 31 to 56~~claim 31, wherein at least one non-magnetic member having an electric
resistivity of $7.0\mu\Omega$ -Cm or less is fixed to the internal surface of the watch case.

58. (Original) The radio controlled watch according to claim 57, wherein
the non-magnetic member is constituted by at least one material selected from gold, silver,
copper, brass, aluminum, magnesium, zinc and their alloy.

59. (Original) The radio controlled watch according to claim 57, wherein
the non-magnetic member is formed by bonding at least two materials selected from gold,
silver, copper, brass, aluminum, magnesium and their alloy.

60. (Currently Amended) The radio controlled watch according to ~~any of~~
~~claims 57 to 59~~claim 57, wherein the antenna is constituted by a magnetic core member and a
coil wound around the magnetic core member in plural turns, and

a member of the watch case onto which the antenna is projected in parallel along at least one plane including an axis of the magnetic core member or a portion onto which the projected member of the watch case is projected is constituted by the non-magnetic member.

61. (Currently Amended) The radio controlled watch according to ~~any of~~ ~~claims 57 to 59~~ claim 57, wherein the antenna is constituted by a magnetic core member and a coil wound around the magnetic core member in plural turns, and

a member of the watch case opposed to at least one end in an axial direction of the antenna or a portion opposed to the member of the watch case opposed to the end in the axial direction is constituted by the non-magnetic member.

62. (Original) A radio controlled watch comprising:

an antenna for receiving a radio wave including time information;

a watch device for causing a display portion to display time information such as a present time by the radio wave received by the antenna;

an antimagnetic plate for preventing an influence of an external magnetism; and

a watch case for accommodating the antenna, the watch device and the antimagnetic plate,

wherein the antimagnetic plate provided in the watch case has an opening portion in an opposed part to the antenna.

63. (Original) The radio controlled watch according to claim 62, wherein the antenna is constituted by a magnetic core member and a coil wound around the magnetic core member in plural turns, and

an opening portion is provided on the antimagnetic plate in a position in which the antenna is projected in parallel along at least one plane including an axis of the magnetic core member.

64. (Original) The radio controlled watch according to claim 62, wherein the antenna is constituted by a magnetic core member and a coil wound around the magnetic core member in plural turns, and

an opening portion is provided on the antimagnetic plate in an opposed position to at least one end in an axial direction of the antenna.

65. (Currently Amended) The radio controlled watch according to ~~any of claims 62 to 64~~claim 62, wherein the antenna is provided to be positioned on an outside of the antimagnetic plate.

66. (Currently Amended) The radio controlled watch according to ~~any of claims 62 to 65~~claim 62, wherein the antenna has at least a part protruded from the opening portion of the antimagnetic plate and positioned on an internal surface side of a case body of the watch case.

67. (Currently Amended) The radio controlled watch according to ~~any of claims 62 to 65~~claim 62, wherein the antenna has at least a part protruded from the opening portion of the antimagnetic plate and positioned on a back cover side of the watch case.

68. (Currently Amended) The radio controlled watch according to ~~any of claims 62 to 65~~claim 62, wherein the antenna has at least a part protruded from the opening portion of the antimagnetic plate and positioned on a display plate side.

69. (Currently Amended) The radio controlled watch according to ~~any of claims 62 to 68~~claim 62, wherein the antimagnetic plate is formed by at least one material selected from pure iron and Permalloy.

70. (Currently Amended) The radio controlled watch according to ~~any of claims 62 to 69~~claim 62, wherein a non-magnetic member having an electric resistivity of $7.0\mu\Omega$ -Cm or less is provided on an internal surface of the antimagnetic plate.

71. (Currently Amended) The radio controlled watch according to ~~any of claims 62 to 64, 69 and 70~~claim 62, wherein the non-magnetic member is provided in the opening portion of the antimagnetic plate.

72. (Currently Amended) The radio controlled watch according to claim 70 ~~or 71~~, wherein the non-magnetic member is constituted by at least one material selected from gold, silver, copper, brass, aluminum, magnesium, zinc and their alloy.

73. (Currently Amended) The radio controlled watch according to claim 70 ~~or 71~~, wherein the non-magnetic member is formed by bonding at least two materials selected from gold, silver, copper, brass, aluminum, magnesium, zinc and their alloy.

74. (Currently Amended) The radio controlled watch according to ~~any of~~ ~~claims 62 to 73~~ claim 62, wherein the non-magnetic member has a rising portion erected in a direction of the display plate, and

the rising portion abuts on a part of the watch case, thereby regulating a rotation of the antimagnetic plate.

75. (Original) A radio controlled watch comprising:
an antenna for receiving a radio wave including time information;
a watch device for causing a display portion to display time information such as a present time by the radio wave received by the antenna; and
a watch case for accommodating the antenna and the watch device,
wherein the watch case is constituted by an electrically non-conductive material or a material having a low electric resistivity, and
an exterior member formed by an electrically conductive material which is attached to an outside of the watch case is provided.

76. (Original) The radio controlled watch according to claim 75, wherein the exterior member covers an upper surface of a watch case body of the watch case.

77. (Currently Amended) The radio controlled watch according to claim 75 ~~or 76~~, wherein the exterior member covers an external side surface of the watch case body of the watch case.

78. (Currently Amended) The radio controlled watch according to ~~any of~~
~~claims 75 to 77~~claim 75, wherein the electrically non-conductive material constituting the
watch case is formed by at least one electrically non-conductive material selected from a
synthetic resin, rubber and ceramic.

79. (Currently Amended) The radio controlled watch according to ~~any of~~
~~claims 75 to 77~~claim 75, wherein a material having a low electric resistivity which constitutes
the watch case includes at least one material having a low electric resistivity which is selected
from gold, silver, copper, brass, aluminum, magnesium and their alloy.

80. (Currently Amended) The radio controlled watch according to ~~any of~~
~~claims 75 to 79~~claim 75, wherein an electrically conductive material constituting the exterior
member includes at least one electrically conductive material selected from stainless, titanium
and a titanium alloy.